

Claims

- [c1] 1. A bicycle derailleur comprising:
- a base member for attachment to a bicycle;
 - a movable member for supporting a chain guide;
 - a first link member pivotably coupled to the base member through a first link pin and pivotably coupled to the movable member through a second link pin;
 - a second link member pivotably coupled to the base member through a third link pin and pivotably coupled to the movable member through a fourth link pin;
 - wherein the first link pin, the second link pin, the third link pin and the fourth link pin define edges of a phantom space;
 - wherein straight continuous phantom lines connecting ends of the first link pin, the second link pin, the third link pin and the fourth link pin in a non-crossing manner define remaining edges of the phantom space;
 - a motor having a primary motor housing through which a drive shaft exits and defines a drive shaft vector that points away from the primary motor housing;
 - wherein at least a part of the primary motor housing is disposed in the phantom space; and
 - wherein the drive shaft vector points away from a plane

containing the second link pin and the fourth link pin.

- [c2] 2. The derailleur according to claim 1 wherein a relative angle between the drive shaft vector and a plane containing the second link pin and the fourth link pin is in a range between 45 degrees and 135 degrees when measured in a plane perpendicular to the first link pin, the second link pin, the third link pin and the fourth link pin.
- [c3] 3. The derailleur according to claim 1 wherein the drive shaft is coupled for moving the movable member through a gear connection.
- [c4] 4. The derailleur according to claim 3 wherein the gear connection comprises a gear reduction mechanism.
- [c5] 5. The derailleur according to claim 1 wherein at least a portion of the primary motor housing is disposed within the base member.
- [c6] 6. The derailleur according to claim 1 wherein at least a portion of the drive shaft is disposed within the base member.
- [c7] 7. The derailleur according to claim 1 wherein at least a portion of the primary motor housing is disposed within the base member, and wherein at least a portion of the drive shaft is disposed within the base member.

- [c8] 8. The derailleur according to claim 7 wherein the drive shaft is coupled for moving the movable member through a gear connection.
- [c9] 9. The derailleur according to claim 8 wherein the gear connection comprises a gear reduction mechanism.
- [c10] 10. The derailleur according to claim 7 wherein the entire primary motor housing is disposed within the base member, and wherein the entire drive shaft is disposed within the base member.
- [c11] 11. The derailleur according to claim 10 wherein the drive shaft is coupled for moving the movable member through a gear connection.